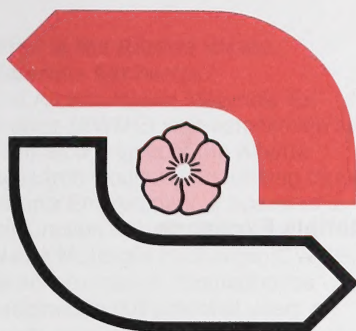




Alberta Waste Materials Exchange

BULLETIN NUMBER 19

MARCH 1990

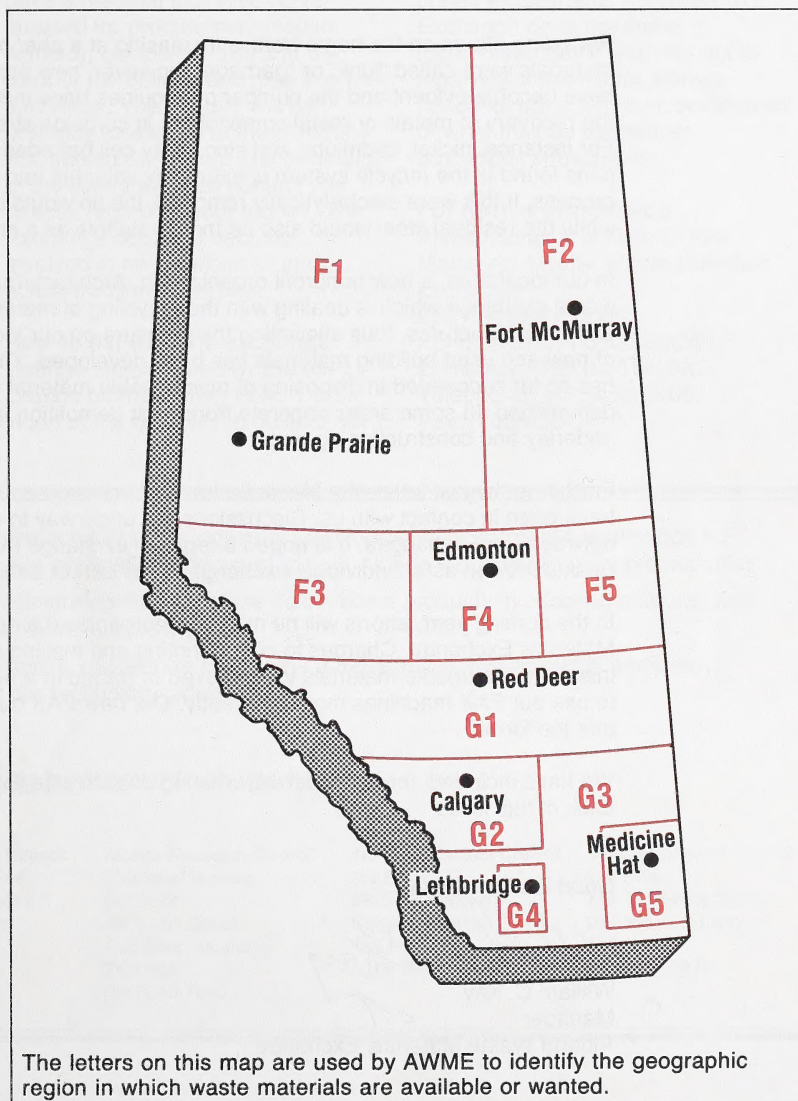
The Alberta Waste Materials Exchange operates in conjunction with the Canadian Waste Materials Exchange (CWME) as an information clearinghouse designed to put potential users of waste material in contact with waste producers.

Wastes are listed in the bulletin under 11 categories:

1. Acids
2. Alkalis
3. Other inorganic chemicals
4. Solvents
5. Other organic chemicals
6. Oils and waxes
7. Plastics and rubber
8. Textiles and leather
9. Wood and paper
10. Metals and metal sludges
11. Miscellaneous

Services available are listed in three categories:

1. Services offered on a custom basis, such as oil and solvent recovery, specialized equipment for waste handling and processing, etc.
2. Services offered on a consulting basis, such as those who specialize in waste management, the production of fuels and/or energy from waste and other areas related to waste reuse.
3. Services offered by transportation companies who are equipped to haul liquids and other special wastes.





Alberta Waste Materials Exchange

Operated in conjunction with the Canadian Waste Materials Exchange

PO Box 8330, Postal Station F, Edmonton, Alberta T6H 5X2
Telephone 403/450-5408

March 16, 1990

Dear Participants:

Recycling efforts on the home front is increasing at a phenomenal rate. At one time our waste materials were called "junk" or "garbage", however, new opportunities in the 4-R's programs have become evident and the number of enquiries have increased enormously. Opportunities in the recovery of metals or metal components in curbside streams are finally being recognized. For instance, nickel, cadmium, and zinc in dry cell batteries are quite valuable. The tin in tin cans found in the recycle system is extremely valuable and is a contaminant in the steel making process. If this were electrolytically removed, the tin would be worth approximately \$6.00US/lb while the residual steel would also be more valuable as a cleaner purer metal.

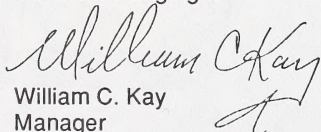
In our local area, a new nonprofit organization, Architectural Clearinghouse, has initiated a waste exchange which is dealing with the recycling of materials from the demolition of buildings and other structures, thus alleviating the pressure on our local landfill. An electronic data base of new and used building materials has been developed. This is a new concept in this area and has so far succeeded in disposing of much usable material from a shopping mall being demolished. In some areas concrete from such demolition is also being crushed as road underlay and construction aggregate.

Further to my last letter, the Manitoba Waste Exchange and the Pacific Materials Exchange have been in contact with us. Discussions are underway to develop a closer cooperative effort between our Exchanges. It is hoped a regional exchange that will eventually include Saskatchewan as an individual exchange, or as part of a mutual effort, will be developed.

In the coming year, efforts will be made to reorganize the operation of the Alberta Waste Materials Exchange. Charges to cover printing and mailing costs of the "Bulletin" will be instituted. To enable materials to be moved or traded in a more timely fashion, we will endeavor to use our FAX machines more frequently. Our new FAX number is (403)450-5477, but please use the forms.

We have included, for your interest, a listing of all Waste Exchanges in North America in the back of this issue.

Good Exchanging!!!



William C. Kay
Manager
Alberta Waste Materials Exchange

What is the Alberta Waste Materials Exchange?

The Alberta Waste Materials Exchange (AWME) was established in 1984 as a project of the Alberta Research Council with funding from Alberta Environment. It operates in conjunction with the Canadian Waste Materials Exchange (CWME) as an information clearinghouse designed to put potential users of waste material in contact with waste producers. A company having material that is unusable at their facility but which still has potential value may list the material with the Exchange. Information submitted is published in a bi-monthly Bulletin without charge and mailed to other industries that may be able to recycle or reuse the available materials.

How to use this bulletin

Listings are broken down into three main categories. These are (1) wastes available, (2) wastes wanted, and (3) services available, where companies specializing in waste management and transportation of waste materials can describe the services they offer.

Wastes Available and Wanted are classified into 11 categories as identified on the cover of the bulletin and on Listing Form 1. Each category appears as a major heading in the bulletin for easy recognition of materials available and wanted. Within these categories each entry is identified by a code number to provide confidentiality for the company involved.

How to respond to a listing

If you locate a material that may be of use to you (waste available) or have a material that is being requested for procurement (waste wanted), complete Form 3 at the back of the bulletin and mail it to the exchange. Your inquiry will be promptly forwarded to the company that placed the listing. The originator of the listing will then contact you directly regarding your inquiry. The Exchange does not become involved in negotiations or in the actual transfer of wastes.

How to list with the exchange

Listings are accepted by the exchange on the Listing Form 1 provided at the back of the bulletin. All

listings are provided free of charge and will be carried indefinitely or until the listing company requests that the item be removed or indicates that the material is no longer available for exchange.

Disclaimer

The Alberta Waste Materials Exchange is an information clearinghouse only, and is neither liable nor responsible for the character or content of any item listed, or for the determination of what may constitute a hazardous substance or create a hazardous condition. The Exchange does not make recommendations with respect to legal requirements for storage, handling, transportation, or disposal of what may be defined as hazardous substances.

For further information

Please contact William C. Kay
Manager, Alberta Waste Materials Exchange
250 Karl Clark Road
PO Box 8330, Postal Station F
Edmonton, Alberta T6H 5X2.
Telephone: (403)450-5408.
Fax: (403)450-5477

You can profit from our technology.

The Alberta Research Council's Industrial Development Department's technology advisors deliver vital information and assistance to Alberta Industry. They help companies develop business strategies to increase sales, boost productivity, expand markets, and develop new products and services.

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Alberta Research Council
2nd Floor
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Lethbridge, Alberta
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Wastes Available

1. Acids

ID	Region	Quantity	Waste
A502	F1	300 gal/mon	Sulphuric acid from battery recycling
A433	F2		sulphuric acid (37%) with some organic contaminants
A82	F4	45,000 l/3-6 mo.	iron chloride solution (8% iron, 5% hydrochloric acid, 8% zinc and zinc chloride)
A492	F4	450 gal	Sulphuric Acid 93%
A493	F4	1 drum	Hydrofluoric Acid
A269	F4	80 T/mo.	petroleum sludge containing sulfuric acid
A504	G1	6 Bbls.	Spent phosphoric acid from electroplating process
A282	G1		nitric acid-copper sludge, phosphoric acid-copper sludge
A435	G1		refined battery acid
A383	G2	4000 gal./mo.	sulphuric acid (battery electrolyte)

2. Alkalies

ID	Region	Quantity	Waste
A414	F	60 tn./wk.	carbide lime slurry 10% solids
A412	F	9.0 tn./wk.	calcium hydroxide slurry pH 13
A431	F2	15,000 cu.m./mo.	lime sludge, 40% CaCO ₃ in produced water, 60% CaCO ₃ , 20% Mg(OH) ₂ , Mg(OH) ₂ precipitate contains adsorbed silicates, pH=9.0-9.5
A55	F4	10,000 gal./wk.	calcium hydroxide slurry (pH+11, 30% solids)
A117	F4	500-1000 tn./yr.	spent lime caustic (30% calcium hydroxide)
A362	F4	1000 gal./day	spent caustic
A203	F4	40-50 tn./mo.	calcium hydroxide, oxide and carbonate in various stages
A254	F4	40-50 tn./mo.	calcium hydroxide, oxide and carbonate in various stages
A411	G	17 tn./day	calcium hydroxide slurry pH 13
A359	G1	150 cu m/day	spent caustic solution, 1-3% caustic, 1500 pts/million hydrocarbon
A5	G2	500-3000 gal./mo.	dilute spent caustic soda (chemical analysis available)
A23	G2	varies	magnesium oxide
A453	G2	45 gal./mo.	caustic soda
A415	G2	150 cu.m./day	1.5% sodium hydroxide, 1.0% sodium carbonate, 200 ppm oil
A255	G2	6-7 tn./mo.	calcium hydroxide, oxide and carbonate in various stages
A211	G4	400 cu.yd./yr.	calcium hydroxide (50% slurry)
A159	Sask.		spent caustic sodium sulphide -1, alkalinity-13, carbonate -11, sodium hydroxate -9, sp.gr.-15

3. Other Inorganic Chemicals

ID	Region	Quantity	Waste
A248	F2		spent catalyst
A223	F2	5 barrels	radiator cleaner and inhibitor
A425	F4	150 lb.	mercury
A61	F4		silica sand - mixed grades and some contamination
A477	F4	500t/wk	Calcium carbonate from water softening 95% in water
A478	F4	200t/wk	Alum. hydrox. 20% solids in water
A461	F4	Unlimited	99% Calcium Sulfate, 1% other calcium compounds, 15% moisture, 46% -325 mesh solids
A505	F4	30,000 lbs	50% Potassium Nitrate, 50% Sodium Nitrate dry solid
A484	F4	300 tonne	Sodium Carbonate pure, sample available
A380	F4	600 tn.	catalyst
A389	F4	60 lb.	potassium perchlorate
A390	F4	60 lb.	potassium nitrate
A277	F4	1500 tn./mo.	electric arc furnace slag

Wastes Available

3. Other Inorganic Chemicals

ID	Region	Quantity	Waste
A444	F4	90 lb./mo.	used activated carbon
A417	G	97 T	30% potassium carbonate (10% ethylene glycol, 10% additives, 50% water)
A241	G1	16 cu m/yr.	activated charcoal
A59	G1	200-600 T/yr.	activated aluminum catalyst
A238	G1	100 T/yr.	spent activated charcoal
A439	G2	40 kg.	sodium bichromate (crystals)
A202	G2		spent catalyst containing leftover phosphoric acid and carbon
A468	G3	150 kg.	Lead acetate
A473	G3	30000 lb.	Heat transfer salt consisting of 40% sodium nitrite, 30% sodium nitrate, 30% potassium nitrate
A387	G4	30 kg.	mercury (recovered from obsolete laboratory chemicals)

4. Solvents

ID	Region	Quantity	Waste
A443	F4		used solvents with petroleum by-products from industrial cleaning process
A470	F4	45gal/quarter	non-chlorinated solvents
A449	F4	10-20 45 gal.drums/mo.	methylene chloride (90-95%; 5-10% acetone)
A450	F4	30 drums/mo.	organic solvents (30% acetone, 20% MeOH, 10% THF, 20% toluene)
A263	F4	90 gal./mo.	waste solvents and inks
A186	F4	1400 gal./2 wk.	paint sludge (after spray - contains water and xylenes)
A424	G1		used solvents
A217	G1		used paint thinner
A463	G2	5 cu.m. immed 1 cu.m. after	Mixed solvents, samples and analysis available
A394	G2	3-45 gal. drums	trichloroethane - Genesolve-D, Code 196-7940 (new and in sealed containers)
A426	G2	2-45 gal. drums	mixtures of methylene chloride (90%), methanol-pentane, methanol, acetone, oils
A402	G2	45 gal.	1,1,1, trichloroethane
A452	G2	70-100 gal./mo.	used solvents

5. Other Organic Chemicals

ID	Region	Quantity	Waste
A440	F2		ethylene glycol
A366	F4	50 gal.	photo-typesetting developer, fixative
A405	F4	2800 gal.	Alcohol esters, ethyl hexanol 10%, alcohol esters 90%, may be used as furnace fuel, 16,000Btu/lb
A499	F4	5 Barrels	Unused Faxam22, Mentor29, Oil 1156, Base Oil 50(Shell)
A393	F4	10 gal./mo.	organic flux 2331
A467	F4	30 drums now ongoing	Blend; Methanol 51%, Ethanol 23%, IPA 15%, Petro solvent 6%
A392	F4	4 drums	isopropanol/naptha mixture
A244	F4	5000 l/mo.	waste liquid chemicals, mixture 85% water
A256	F4	10-15 tn.	imidazole hydrochloride
A491	F4	400 gal/1 time	Methanol 30-50% in water
A407	F4	1700 l	Tall oil fatty acid mixture (sample available)
A494	G2	20 Drums	Polyalkyl naphthalene sulphonate MSDS available
A207	G2	800 gal.	cyanide solution

Wastes Available

6. Oils and Waxes

ID	Region	Quantity	Waste
A434	F2		linseed oil
A51	F4	250-300 gal./yr.	used oil
A386	F4	90 gal./mo.	waste engine oil
A80	F4	10 gal./wk.	used oil
A93	F4	200-300 gal./mo.	used hydraulic oil and varsol 90% (mixed with water, engine oil)
A397	F4	10 gal./mo.	tinning oil 5750
A113	F4		oils and lubricants
A198	F4	45 gal./mo.	used oil
A257	F5	250 gal./day	light oil condensate waste (70% water & 30% oil)
A108	F5		crankcase oil
A245	F5		slop oil - about 50% water (from production department)
A242	G1	75 cu.m/yr	hydrocarbon oily sludge material
A208	G1		used oil
A457	G2	100,000 kg in drums	Slop grease
A451	G2	125-200 gal./mo.	used oil

7. Plastics and Rubber

ID	Region	Quantity	Waste
A155	B.C.		used tire casings (passenger and light truck)
A481	Canada	Unlimited	Ground rubber crumb
A501	F1	Unlimited	Reclaimed battery plastics
A153	F1	10 tn./wk.	P.E.T. (plastics)
A500	F4	Unlimited	Scrap poly plastics
A37	F4		scrap tires
A42	F4		scrap plastics
A52	F4	approx. 20 tn./mo.	waste plastic bags
A479	F4	10tonne	P.E.T. from microfiche
A79	F4		used tires, shredded rubber
A476	F4		Used motorcycle tires
A459	F4	25-30lb./wk in bags	Styrofoam SM and beadboard
A495	F4	1200 lb./mon.	Plastic pails, bottles(4 litre), and film-PE and PVC
A353	F4	10-15,000/yr.	scrap tires
A364	F4	300-500 lb./mo.	graphic arts film
A381	F4	20,000 lb./mo.	plastics
A365	F4		graphic arts film
A144	F4		scrap tires
A460	F4	500-1000lb./mo.	PVC, PE, plastic shavings, off-cuts, sheet-ends, welding rods, pipes
A462	F4	2000ft	polyethylene pipe 3-4" dia pipe random lengths, max 40'
A489	F4	700 cu.m./one time	Off-spec polystyrene semi solid potential fuel blending
A490	F4	250	High density PE bottles, empty
A311	F4	1/2 million lb./yr.	photographic film after removal of silver
A194	F4	25 /day	used tires
A206	F4		.006 mil thick poly stripped from foamed pipe process
A469	F4	2trler loads now then 2lds/6wk	Tractor tires for shredding or recycle
A109	F5		rubber tires
A485	F5	20 Tonnes	Polystyrene discarded from tree planting containers
A107	G1	250	large truck tires
A507*	G1	40,000 kg	baled LLDPE film from fibre glass insulation bags (4t/mon cont)
A200	G1		scrap tires
A436	G1	50,000 lb./mo.	scrap polypropylene plastic (raw)
A24	G2	10,000	old tires

* new listing

Wastes Available

7. Plastics and Rubber

ID	Region	Quantity	Waste
A27	G2		scrap tires (passenger or truck)
A429	G2	40-50,000 k/mo.	scrap polyethylene in roll form and bales
A382	G2	40,000 lb./mo.	plastic (from battery rebuilding; sample/lab analysis available on request)
A99	G2		plexiglass
A112	G2	100-200 lb./yr.	polypipe scraps
A420	G2	6,000 lb.	urethane, jacket stripped from cable reground or bulk
A395	G2	100's	plastic pails/4 L sour cream containers
A272	G2		sytrene, both flocked & unflocked; vinyl strips
A192	G2		cured rubber machined off elements
A437	G2	3 T/mo.	linear low density polyethylene scrap
A419	G4	1000/wk.	LD polyurethane washers 7/8" OD, 5/16" ID, 1/8"-3/16" thick
A471	G5	Tractor trailer/mo.	Polystyrene block or pellet, suitable for packing or fill
A404	G5		PE,PVC, reground battery cases
A8	G5		plastic ends cut from bagging operation
A447	Sask.	1000 kg./mo.	polyethylene (MA7 087)
A448	Sask.	2000lb/mo	polyethylene scrap(MA7 079)
A480	W Canada	10ton min.	LDPE, PP, PC, HDPE Plastics

8. Textiles and Leather

ID	Region	Quantity	Waste
A128	F4		rags from garment manufacturing
A482	F4	Bulk	Polyester fabric cuttings from garment manufacture
A368	G2		cloth, factory remnants
A180	G2		material odds and ends, discontinued samples includes cotton
			suitable for wiping
A215	G2		vinyl pieces

9. Wood and Paper

ID	Region	Quantity	Waste
A135	F1		cardboard
A225	F1	18 million lb./yr.	wood shavings, sawdust, slabs suitablefor firewood
A233	F3		sawdust, bark, oversize chips of wood, planer shavings
A401	F4	100/wk.	wood pallets
A41	F4		wood pallets, various sizes
A230	F4		cedar wood chips
A475	F4	800-1000kg/wk	Cellulose acetate filament bundles paper wrapped
A235	F4	100 tn./mo.	spruce shavings, sawdust, dry planer trim blocks
A497	F4	200now-40/mon.	Wooden pallets 40"X48", 36"X36", 38"X48"
A498	F4	600 lb./wk	Cardboard boxes, paper tear sheets
A236	F4	1000 cu.ft./wk.	wood shavings
A137	F4	2 tn./mo.	scrap newsprint
A375	F4	2500 cu.ft./wk.	sawdust (adzing of wood r.r. ties)
A145	F4		scrap pallets and cardboard cylinders (11" & 14" diameter, 46" tall)
A293	F4		waste paper
A193	F4		printed white bond paper, printed newsprint paper
A226	F4	18 bone dry units/mo.	dry wood waste (spruce, pine, fir) in chip form
A29	G1		tree bark
A410	G1		sawdust
A101	G1	500-1000 lb./wk.	clean paper, some colored
A209	G1		wood packing crates
A377	G2	30 cu.yd./wk.	pine offcuts and sawdust

Wastes Available

9. Wood and Paper

ID	Region	Quantity	Waste
A133	G2		paper products
A421	G2	300 cu.yd./wk.	kiln dried softwood waste, sawdust, offcuts, etc.
A151	G2		printed newspaper
A508*	G2		Wood pallets and Corrugated Cardboard
A273	G2		cardboard bits & pieces; flocked paper
A189	G2		sawdust and woodchips from molders
A438	G2	10-15 T/mo.	natural craft paper, polycoating mixed with paper
A430	G2	large quantities	paper board scrap(cardboard)
A218	G2		paper and wood
A92	G4	2,000 bags/mo.	empty paper feed bags
A237	G4	3 tn./mo.	hardwood charcoal - granular
A38	G5		newsprint, mixed paper, cardboard
A474	G5	100now/80/wk	Wooden pallets 21"x49"with 3-2x4 stringers
A174	G5		cardboard boxes
A446	Man.	6 tn./mo.	paper waste (MA9 006)
A445	Man.	1 tn./mo.	paper waste; bond, newsprint (MA9 061)

10. Metals and Metal Sludges

ID	Region	Quantity	Waste
A88	F1		scrap metal (steel, aluminum, etc.)
A134	F1		sheet metal
A369	F2		pot metal, old combines, thrashing machines, galvanized tin, used transformer cans
A428	F4	500 lbs./mo.	graphite dust (fine)
A7	F4		used inserts from machine tools - tungsten carbide
A34	F4	varies	aluminum extrusion off-cuts
A406	F4	4000	lithium thionyl batteries
A91	F4		stainless steel & bronze turnings (waste material from machine shop)
A302	F4	200 lb./mo.	carbon dust
A360	F4		cast iron, bronze, steel parts
A96	F4	25 tn.	catalyst vanadium pentoxide
A106	F4		aluminum molding offcuts
A496	F4	3 Cu. m./mon.	Aluminum cans(12oz.)and lids
A121	F4		used diesel engine valves
A132	F4	500-800 lb./mo.	steel wire up to 5' lengths and up to 1/2" diameter
A363	F4	1000/mo.	aluminum printing plates
A374	F4	500 tn./wk.	prepared scrap railroad steel
A376	F4	4 tn./wk.	brass journals, copper, aluminum
A378	F4	Unlimited	steel, copper, aluminum
A292	F4		aluminum printing plates
A142	F4	3000 lb./yr.	stainless steel
A384	F4	12 cu.yd./wk.	steel (lathe turnings)
A182	F4		45 gal. metal drums
A264	F4	12-15	batteries
A274	F4	300 tn./mo.	electric arc furnace baghouse dust
A506*	F4	unlimited	Silver Sulphide from siver recovery 98+% purity
A205	F4		empty drums
A110	F5		used 45 gal. oil drums
A265	G1		scrap metal contaminated with sulfur
A266	G1		used 45 gal. drums
A86	G1		prepared scrap metal and salvage
A102	G1		metal plates, used film, used photo chemicals

* new listing

Wastes Available

10. Metals and Metal Sludges

ID	Region	Quantity	Waste
A503	G1	150lb.	Copper sludge from electroplating
A287	G1		hardened steel dies (2 1/2" x 4" x 1/4" or 1/2" thick)
A210	G1		scrap iron
A45	G2	300 cu. ft./3 mo.	spent iron sponge
A87	G2		knitted stainless steel wire
A95	G2		empty 45 gal. drums
A97	G2		plate, tubes, structural steel; various thicknesses and sizes
A111	G2	100 lb./yr.	brass
A423	G2	10,000 lb.	copper wire insulation burned off
A114	G2		metals (chips and blocks)
A246	G2		graphic negatives, negative fixer, aluminum printing plates
A152	G2		page negatives (film), aluminum printing plates
A156	G2		used stainless steel wireline .092" diameter (lengths to 10,000 ft.)
A271	G2		scrap aluminum
A204	G2		used drums
A169	G3		scrap iron
A212	G4	50 (45 gal. drums)/yr.	steel slugs, steel dust

11. Miscellaneous

ID	Region	Quantity	Waste
A472	F-4	50ton/mon	Fiberglass mat containing glass 36%, Water 50%, resin 4%, potential use thermal or sound insulation
A84	F2		packing house waste
A488	F2	Unlimited	Petroleum Coke with 7% S, 2% SiO ₂ , 2% Al ₂ O ₃ potential fuel or deducing agent
A6	F4	3 tn./mo.	fine abrasive dust that's a byproduct of flux reclaiming process (could be used for bag weights)
A35	F4		scrap glass
A315	F4		floor drain pit sludge
A53	F4	1-10 m	used concrete
A432	F4	6-8 45 gal. drums	rubberized asphalt with methylene chloride and petroleum distillate
A361	F4		scrap glass
A388	F4		broken 2 mm clear/non-glare glass
A396	F4		wastes offcuts from picture frames
A157	F4		racking and shelving
A162	F4		glass bead powder from sandblast unit (potential building material application)
A278	F4	1000 tn./mo.	combustible auto hulk refuse
A422	F4	6-8 cu.yd./mo.	scrap clear glass
A270	F4	80 T/mo.	oily clay
A487	F5	550 tons	Bottom ash, 44%-SiO ₂ ; 29%-Al ₂ O ₃ ; 9%-CaO; 7%-SO ₄ ; 5%-FeO.
A60	G1	20-60 T/yr.	sorbead desiccant
A167	G1		packing house wastes
A201	G1		animal offal from beef and pork slaughter floor
A456	G2	3-45gal drums	Fluorescent light ballasts
A371	G2	30 cu.m./day	mixture of sand and heavy oil
A11	G2		finely ground low sulfur medium volatile coal, bagged, -20 and -35 mesh
A227	G2		very fine coal dust recovered from bag filter, -325 mesh
A58	G2		ground glass dust
A83	G2	Unlimited	absorbent materials from mining and processing
A100	G2		used ballasts and transformers

Wastes Available

11. Miscellaneous

ID	Region	Quantity	Waste
A126	G2		mixture of sand and heavy oil
A146	G2		oilfield equipment
A154	G2	40 gal./mo.	waste flux
A320	G2	150 gal./yr.	waste freon
A483	G2	150now;02/mon.	Lithium batteries (liquid cathode) from portable instruments
A168	G2		industrial and domestic sewage sludge
A454	G2	5 gal./mo.	brake fluid
A455	G2	50-100 gal./mo.	transmission fluid
A249	G2		steel punching slugs, oil laden scale
A486	G2	Variable	Miscellaneous laboratory chemicals unused surplus
A216	G2		building debris, concrete
A224	G2		straw stable cleanings
A25	G3		feathers and rabbit hides
A228	G4		broken window glass
A129	G4	900 T/yr.	Filter press cake pH-8.65, water 68.74%, alumina 203-57.6%
A213	G4		paint sludge
A39	G5		glass
A143	G5		cultured marble and onyx waste

Architectural Clearinghouse

The Architectural Clearinghouse is an idea whose time has come at a period when there is a great deal of interest in the environment. It is a form of Waste Exchange centered in the City of Edmonton. We have placed this article here because we think the concept should be taken up in other areas.

The purpose of the Architectural Clearinghouse (operated by a not-for-profit organization) generally is to short circuit materials destined for landfills while providing new employment opportunities. The materials from demolition of buildings, excess or redundant inventory are recovered and recycled.

Materials Available

Wood – structural timbers, finished lumber

Doors/Windows – Interior/exterior, Commercial/ residential and related hardware.

Mechanical/Electrical – Air conditioning, lighting, control panels and related hardware

Miscellaneous – Carpeting and interior furnishings, various structural items.

The contact numbers for information on this architectural waste exchange are as follows.

Telephone (403)479-0079

FAX (403)479-7700

Address: 11631 - 80 Street
Edmonton, AB
T6B 2N3

Wastes Wanted

1. Acids

ID	Region	Quantity	Waste
W213	Canada and USA	Truckloads	Phosphoric Acid
W86	F4		acids
W226	G2	500-1000gal/mon	Waste sulphuric acid
W150	G2	5 T/mo.	acetic acid (free of suspended solids)
W151	G2	5 cu.m./mo.	formic acid (free of suspended solids)
W35	G2		spent phosphoric acid, urea, ammonium nitrate, ammonium phosphate

2. Alkalies

ID	Region	Quantity	Waste
W215	Canada and USA	Truckloads	Silicon metals, silicon carbide, sodium silicate
W216	Canada and USA	Truckloads	Carbon from tire pyrolysis, graphite, refractory kyanite
W79	F4		alkalis
W208	G2	tonnage	Limestone or Hydrated lime for neutralization of soil acidity and sulphuric acid
W236	G5	Unlimited	Sodium type waste Alkalies

3. Other Inorganic Chemicals

ID	Region	Quantity	Waste
W177	All	large quantities	any product containing high percentage calcium and/or silica
W173	All	large quantities	gypsum
W174	All	large quantities	anhydrite
W175	All	large quantities	bauxite
W176	All	large quantities	alumina
W214	Canada and USA	Truckloads	Bauxite, alumina
W167	F4	Container loads	Sulphur
W168	F4	Container loads	activated (hardwood) charcoal
W81	F4		redundant chemicals - dry or liquid
W41	G2		products containing plant nutrients NPKS (sulphate) magnesium
W46	G4	5 tn./mo.	scrap carbon or graphite - low ash, low volatile, low sulphur
W104	Ont.	truckload/tankcar barrels	MDI/TDI (Isocyanate), urethanes, polyol, or glycol streams, acetone

4. Solvents

ID	Region	Quantity	Waste
W235	Alberta	Unlimited	Polyols such as propylene glycol
W160	F4	Unlimited	waste solvents, including chlorinated and freons
W149	G2	10 cu.m./mo.	xylene

5. Other Organic Chemicals

ID	Region	Quantity	Waste
W166	F4		ethyl acetate
W165	F4		acetic anhydride (100%)
W68	F4		demulsifiers, biocides
W76	F4		redundant chemicals - dry or liquid

Wastes Wanted

5. Other Organic Chemicals

ID	Region	Quantity	Waste
W238	G1	Unlimited	All Glycols and Amines
W197	USA	Unlimited	polyethylene glycol

6. Oils and Waxes

ID	Region	Quantity	Waste
W137	F4		used cooking oil
W95	F4		used lubricating oil, contaminated fuel and petroleum solvents
W112	G1		reclaimed oil from oil patch
W78	G4		used cooking oil

7. Plastics and Rubber

ID	Region	Quantity	Waste
W234	Alberta	Unlimited	Isocyanates includes MDI and TDI
W202	All	Unlimited	Injection moulding plastics
W241*	All	100Kg/Mon	Polypropylene battery reground
W183	All	Unlimited	tire buffings, shreddings and peelings
W203	All	Unlimited	PE, PP, PVC, ABS, PS
W233	Alta,B.C., NW USA.	20000 Kg containers/wk	Reground polypropylene and HDPE for injection moulding
W138	B.C.	20 tn.	plastics
W51	B.C.		used tire casings for retreading (passenger and light truck)
W227	Canada	Unlimited	All rubber and all types used tires
W228	Canada	Unlimited	All types of plastics
W23	F4		polyethylene and other waste plastics
W164	F4		10 or 20 gal. drums
W25	F4		large scrap pieces of foam and materials
W207	F4	500/month	Used tires, no steel belts, light truck and auto only
W169	F4	Container loads	plastic containers, drums
W209	F4	Unlimited	Polyfoam, packaging foam, polyplank scraps, sheets
W148	F4	Unlimited	thermoset plastics, melamine formaldehyde, polycarbonates
W157	F4	5000 lbs./mo.	urea formaldehyde
W158	F4	Unlimited	Rubber tires (for shredding)
W59	F4		polypropylene; clear polycarbonate; ABS; high impact polystyrene
W242*	F4	Unlimited	Mixed plastic wastes from industrial or post consumer sources
W191	F4	10 tn./mo.	polyethylene suitable for the manufacture of plastic bags
W212	G2	Unlimited	Used tires for shredding
W142	G2		polyethylene and other plastics
W111	G4		low density reclaimed film scrap
W140	G5	Unlimited	plastics - thermoplastics
W181	Ont.	Unlimited	plastics
W190	Ont.	Unlimited	Natural rubber, SBR, vulcanized rubbers
W218	Ont.	Unlimited	Isocyanates or liquids containing isocyanates(MDI/TDI), hardened or outdated materials acceptable
W204	USA	Truck Load/Low 10000 lb	Chunk or ground all types of plastic scrap from molding or extrusion process
W205	USA	Unlimited	PE, PP, PVC, PET, ABS plastics from recycling or industrial wastes
W196	USA	Unlimited	P.E.T.
W225	W.Canada	20000 lb. min	PLastics LDPE, PVC, PP, HDPE
W219	W.Canada	50,000kg/mon	Clear reground molding plastics e.g. PE, PP, PS, ABS

* new listing

Wastes Wanted

8. Textiles and Leather

ID	Region	Quantity	Waste
W170	F4	Container loads	cotton factory (textile) wastes
W53	G2		cotton rag wastes
W57	G2		used cloth - mostly cotton content

9. Wood and Paper

ID	Region	Quantity	Waste
W42	B.C.		most types of waste paper
W139	F4	Unlimited	waste paper
W224	F4	Small/unlim.	White and coloured ledger and high grade paper
W43	F4		clean boxes for shipping
W239	G1	Unlimited	Wood pallets any size or condition
W62	G2		1x4 hemlock ends - over 13 1/2" long or jacket board
W201	USA	2000 tn./mo.	waste paper, white ledger/colored ledger, CPO, CPO w/laser, hard white shavings, soft white shavings, cull roll materials

10. Metals and Metal Sludges

ID	Region	Quantity	Waste
W229	Alberta	Unlimited	Aluminum and other metals
W221	Alberta	Unlimited	Iron oxide from electric arc furnaces or mag tape production
W178	All	Unlimited	electrolytic silver recovery
W179	All	Unlimited	scrap or exposed xray film
W180	All	Unlimited	silver chip and residue
W210	All	Unlimited	Iron core magnetic waste, laminated core, iron oxide
W130	F2		metals and alloys
W220	F4		Dry 5 gal pails
W222	F4	Unlimited	Tungsten carbide machine shop cutting tool inserts
W223	F4	Unlimited	Aluminum and aluminum scrap parts
W163	F4		10 or 20 gal. drums
W192	F4	Unlimited	Auto hulks, car bodies
W171	F4	Unlimited	used steering components, hydraulic equipment
W143	F4	Unlimited	metals
W232	F4	Tonnage	Recyclable metals of all types.
W133	F4	Unlimited	scrap steel, copper, aluminum from heavy industries
W144	F4	Unlimited	steel, copper, aluminum
W145	F4	Unlimited	metals
W101	F4		silver bearing film and solution
W70	F4		used steel drums
W71	F4		precious metal scrap, photographic products, typesetting, etc.
W36	F4,G1		scrap metals
W28	G1		scrap aluminum, zinc, lead, bronze alloys and copper
W27	G1		waste metals and salvage (brass, copper or lead)
W60	G1	2000-20,000 lb.	coil ends, 2" or wider, 14 Ga. galvanized or sheet sides, alum, stainless, galvanized or hot and cold roll steel in good condition
W231	G1	Unlimited	Batteries, all types
W162	G2		scrap monel (nickel/copper alloy)
W31	G2		steel drums
W92	G2		silver, precious and rare metals, film, aluminum
W154	G2	Unlimited	lead (for smelting)
W50	G5		all sizes of steel pipe
W237	Mexico	33000lb.	Spent hydrogenation nickel catalysts from petrol or chical industry

Wastes Wanted

10. Metals and Metal Sludges

ID	Region	Quantity	Waste
W200	USA	Unlimited	metals and metal containing sludges
W194	USA	Unlimited	babbitt metals
W195	USA	Unlimited	any sludge material containing tin or oxide
W198	USA	Unlimited	gold bearing materials of any grade (e.g. electronic mfg.)

11. Miscellaneous

ID	Region	Quantity	Waste
W186	All	large quantities	slag
W187	All	large quantities	bottom ash
W188	All	large quantities	any finely powdered (micron range) product
W211	All	Unlimited	Electric motors and tools, transformers
W217	Canada and USA	Truckloads	Kaolin clay, vemiculite, bentonite
W14	F1		cellophane, fibrous materials
W240	F1	Unlimited	All Types of batteries
W21	F4		scrap fibreglass roof insulation
W24	F4		backfill materials
W34	F4		waste material suitable for concrete aggregates
W89	F4		high energy waste as kiln fuel
W38	F4		used diesel engine cylinder heads, engine blocks
W230	F4	Unlimited	All types of Batteries
W132	F4		waste material that could be fed to livestock
W85	F4		racking and shelving
W32	F5		packing material, hardwood/metal crating, styrofoam/foam packing
W22	G2		flint cullet (clear glass)
W54	G2		industrial and domestic waste water
W75	G2		straw, shavings
W185	G5	Unlimited	scrap glass

Services Available

1. Custom Services

Area	Company	Phone
Alberta	Alberta Recoveries & Rentals Ltd 1-9V Briar Park Way N.W. Medicine Hat, Alberta T1A OR2 Contact: Mr. Tim McInnis Custom regrinding of most plastic materials. Purchase and sales of scrap plastics including PE,PP,PVC,ABS, purgings, barrels, pails and LLDPE.	(403)527-7003
Alberta	Alberta Research Council Industrial Services Laboratory P.O Box 8830, Postal Stn.F Edmonton, Alberta T6H 5X2 Contact: Dr. E.F. Bertram	(403)450-5407
Alberta	Specialized materials evaluation. B.F.I. Medical Waste Systems 5566 - 54 Avenue Calgary, Alberta Contact: Mr. Hamish Thoms Disposal of contaminated medical waste, infectious materials.	(403)236-3883
Alberta	Big M Plastics Ltd. 622 - 30 Street N Lethbridge, Alberta T1H 3Z2 Contact: Ms. Bev McGee Reclaims film scrap.	(403)328-0364
Alberta	Budget Battery P.O. Box 5027 Peace River, Alberta T8S 1R7 Contact: Mr. Ray Keip Pick up and disposal of used batteries and scap metals	(403)332-4229
Alberta	C & A Auto Recycling P.O. Box 52 Millet, Alberta T0C 1Z0 Contact: Mr. Colin Kerr Recycling of crushed car bodies.	(403)387-4184
Alberta	CEDA - Reactor Ltd. 2130 - 121 Avenue N.E. Edmonton, Alberta T6S 1B1 Contact: Mr. Sandy Sutton or Mr. Laurie Semotiuk Handling of hazardous waste (excl. radioactive or explosive), spill cleanup, vol. reduction, site rehab./soil reclaim., tank cleaning, effluent pond maintenance,catalyst handling/disposal.	(403)467-3233
Alberta	Canada Battery Rebuilders 803 Gate 10 - 24 Avenue S.E. Calgary, Alberta T2G 1P5 Contact: Mr. J. VanWert Handling of sulphuric acid.	(403)233-8920

Services Available

1. Custom Services

Area	Company	Phone
Alberta	Gallason Industrial Cleaning Services Inc. 11228 - 87 Avenue Fort Saskatchewan, AB T8L 2T2 Contact: Mr. Mark Johnson Industrial vacuum, high pressure water washing, catalyst handling.	(403)998-7773
Alberta	Harpers Metals Ltd. 5835 Kerrywood Drive Red Deer, Alberta T4N 4X5 Contact: Mr. Ian Scott Metals removal	346-4185
Alberta	International Solvent Corporation P.O. Box 242 Nisku, Alberta T0C 2G0 Contact: Mr. James Andru Recycling of waste solvents.	(403)955-2390
Alberta	Laidlaw Waste Systems (Alta.) Ltd. 7940 - 25 Street Edmonton, Alberta T6P 1M9 Contact: Mr. Don Hughes Clean up and removal of solid wastes. (No liquid or radio- active materials).	(403)440-1700
Alberta	Laidlaw Waste Systems Ltd. P.O. Box 12006 Edmonton, Alberta T5J 3L2 Contact: Mr. Don Hughes Industrial,commercial,residential waste removal, compactor system design and installation,landfill management,recycling.	(403)440-1700
Alberta	Lett Holdings Ltd. P.O. Box 331 Lac LaBiche, Alta. T0A 2C0 Contact: Mr. Tom Lett	(403)623-4121
Alberta	M-4 Holdings Ltd. Box 227 RR-6 Edmonton, Alberta T5B 4K3 Contact: Ms. Lynne M. Link Reconditioning services for used railroad track spikes and rail anchors.	(403)973-9161
Alberta	Maple Leaf Metal Industries Ltd. 4510-68 Avenue Edmonton, Alberta T6B 2N2 Contact: Mr. Gordon Schroeder Removal of scrap metals including aluminum, copper brass, steel, cast iron, batteries and car bodies.	(403)468-3951

Services Available

1. Custom Services

Area	Company	Phone
Alberta	Norwest Labs 9938 - 67 Avenue Edmonton, Alberta T6E 0P5 Contact: Ms. Cheryl Shea Analysis and characterization of most chemical waste products.	(403)438-5522
Alberta	Recycle Oil Services 9830 - 34 Street Edmonton, Alberta T6B 2Y5 Contact: Mr. D.E. Cameron Will collect all types of used oil anywhere in Alberta.	(403)465-1633
Alberta	SIL-GOL Recycling Canada Ltd. #1, 3516 - 26th Street, N.E. Calgary, Alberta T1Y 4T7 Contact: Mr. Steven Turner Custom recovery of silver, gold and aluminum.	(403)291-0464
Alberta	Spencer-Lemaire Industries Ltd. 11413 - 120 Street Edmonton, Alberta T5G 2Y3 Contact: Mr. Hank Spencer Custom regrinding and reprocessing of all plastics.	451-4318
Alberta	Technisol Incorporated P.O. Box 1040 Raymond, Alberta T0K 2S0 Contact: Mr. Bruce Selk Recycling of waste solvents and waste inks.	(403)752-4286
Alberta	Wearmouth Waste-Tech Ltd. Box 1, Site 1, R.R. #5 Calgary, Alberta T2P 2G6 Contact: Mr. Jeff Wearmouth Provide pick-up, handling and transportation of small quantities of hazardous wastes, lab wastes, clean-up wastes, industrial site closures, PCB ballasts and capacitors.	(403)236-2202
Alberta	Wild Rose Recycling Ltd. P.O. Box 6628 Wetaskiwin, Alberta T9A 2G3 Contact: Mr. Charles Jackson Disposal and pick-up of scrap batteries.	(403)352-4250
Alberta & B.C.	D.E.M. Resource Processors Ltd. 660 - 600-6th Avenue S.W. Calgary, Alberta T2P 0S5 Contact: Mr. L.E.W. Hogg Supply of absorbent materials for liquid wastes etc. (See Ekaton Energy Limited).	(403)269-6100

Services Available

1. Custom Services

Area	Company	Phone
Alberta & B.C.	Ekaton Energy Limited 660-600 - 6 Avenue SW Calgary, Alberta T2P 0S5 Contact: Mr. L.E.W. Hogg, President	(403)233-8415
	Produces an industrial absorbent which is inert and able to handle liquid wastes as in acid, bromide, etc. Initiating devices to handle clean-ups, toxic chemicals, etc. utilizing its clay based absorbent.	
Alberta & B.C.	General Scrap Iron & Metals Ltd. 11915 - 156 Street Edmonton, Alberta T5V 1E8 Contact: Mr. R.D. Persson	(403)452-5865
	Buy, sell and process all types of scrap metals.	
Alberta & B.C.	Scrapco Metal Brokers Ltd. 9439 - 34 Street Edmonton, Alberta T6B 2X6 Contact: Mr. Edward Prikupets	(403)466-3825
	Specialize in the recycling of all types of scrap metals.	
Alberta & Manitoba	Allied Paper Savers 16345 - 130 Avenue Edmonton, Alberta T5V 1K5 Contact: Mr. Alvin Ballachay	(403)447-1255
	Buys and collects all types of used paper (newsprint, corrugated cardboard, computer white and coloured ledger, mixed waste, etc.).	
Alberta, B.C., Sask., Man.	Chemex Labs Alberta Inc. 2021 - 41 Avenue NE Calgary, Alberta T2E 6P2 Contact: Mr. Brian Smith	(403)291-3077
	Independent analysis of most waste materials for identification, characterization, evaluation, clean-up, treatment and/or disposal decisions.	
Alberta, B.C., Saskatchewan	Mayer Metals Ltd. 9931 - 67 Avenue Edmonton, Alberta T6E 0P6 Contact: Mr. Geoffrey K. Mayer	(403)438-5107
	Will handle all metal and metal bearing products	
Calgary	B.F.I. Waste Systems 5566 - 54 Avenue Calgary, Alberta T2C 3A5 Contact: Mr. Hamish Thoms	(403)236-3883
	Solid waste removal.	

Services Available

1. Custom Services

Area	Company	Phone
Canada	A.B.T. Equipment Mfg.Ltd. P.O. Box 1201, Stn."T" Calgary, Alberta T2H 2H5 Contact: Mr. John J. Grubb	(403)243-4665
	Manufacturer of can crushing equipment from small sizes to 45 gal. drums, can washing equipment. Also able to crush loose car body and fender parts.	
Canada	Dowalco Agencies Ltd. P.O. Box 772, Station T Calgary, Alberta T2H 2H3 Contact: Mr. Don Cooper	(403)279-0362
	Supply and servicing of geiger counters and other devices for safe handling of radioactive waste. Signs and placards for hazardous goods handling. Can conduct leak tests on sealed radioactive sources.	
Canada	Parkes Scientific Canada Inc. 76 Quesnell Road Edmonton, Alberta T5R 5N2 Contact: Mr. Lance Parkes	(403)484-1849
	Distributors of Finnish company "Little Still" solvent recycling equipment (3 gal./day to 200 gal./hr.) and Sanborn/Donaldson Filtration centrifuge systems for process/fluid coolant recovery.	
Canada	Scepter Manufacturing Co. Ltd. 4225 - 92 Avenue Edmonton, Alberta T6B 3M7 Contact: Mr. D.H. Lloyd	(403)468-4444
	Crosslink poly tanks, U.S. D.O.T. approved transportable tanks complete with fork lift and stacking features, free standing storage tanks to 16,400 U.S. gallon capacity, plastic pipe, valves and fittings for chemical handling.	
Canada	Silver Recovery Systems Canada Ltd. 14511 - 123 Avenue Edmonton, Alberta T5L 2Y6 Contact: Mr. Tim Taranglo	(403)451-5454
	Custom processing of x-ray film using "film wash".	
Canada	Wells-Hall Fabrication and Construction Ltd. #7, 3610 - 29 Street NW Edmonton, Alberta T6P 1J8 Contact: Mr. Ted Willis	(403)465-3391
	Manufactures 'waste to energy' products, thermal waste destruction. Equipment will take waste streams consisting of newsprint, tires, solvents and oils, agricultural wastes, sludges, wood and wood bark, some plastics and synthetics, coal and peat.	

Services Available

1. Custom Services

Area	Company	Phone
Canada	Western Reduction Systems 9931 - 67 Avenue Edmonton, Alberta T6E 0P6 Contact: Mr. Glenn Cohen	(403)438-5107
	Specializing in the recycling, marketing, and transportation of all rubber and plastic waste materials	
Canada & U.S.	Canterra Engineering Ltd. #7, 3610 - 29 Street, N.W. Calgary, Alberta T1Y 4Z7 Contact: Mr. Howard Jackson	(403)291-0650
	Designs and manufactures machines to solve difficult drilling, transportation and construction problems. Canterra has offices in Canada and the U.S. Their present equipment includes people portable drills, helicopter portable drills, all terrain wheeled and tracked vehicles, buggy and truck drills, water well drills, specialized construction equipment and custom machines.	
Canada & U.S.	Catalyst Recovery Canada Ltd. P.O. Box 1116 Medicine Hat, Alberta T1A 7H3 Contact: Mr. Greg Hamston	(403)527-4400
	Complete catalyst handling services.	
Canada & U.S.	Catalyst Technology (Canada) Ltd. 8103 - 43 Street Edmonton, Alberta T6B 2M3 Contact: Mr. James R. Moses	(403)468-4544
	Hazardous and dangerous goods materials, spill clean-ups, heavy industrial vacuuming, inert entry, materials screening	
Canada & U.S.	Enerchem Incorporated 21328 Meteor Drive Cupertino, California 95014 Contact: Mr. Saul Hoffman	(408)738-1166
	Recycling of inorganic chemical and mineral by-products and wastes; mineral salts such as magnesium, chloride, magnesium/calcium oxides; acids such as nitric, hydrochloric, sulfuric and acetic acid. Reprocess or resell to selected markets. Deal with minimum truckload and carload quantities. Offer a consulting service in developing reprocessing techniques or market development for waste/by-products.	
Canada & U.S.	Keller Environmental Services 6011 - 87A Street Edmonton, Alberta T6E 5W6 Contact: Mr. J. Cheladyn/ Mr. T.L. Willis	(403)468-5991
	Solid and liquid waste incinerators, waste gas incinerators, burner management, flare ignition and controls, water and waste water treatment equipment.	

Services Available

1. Custom Services

Area	Company	Phone
Canada & U.S.	Matt's Manufacturing Ltd. 8512 - 44 Street SE Calgary, Alberta T2P 2G6 Contact: Mr. Les Tomlin Designs, fabricates and supplies speciality equipment for custom handling of all hazardous wastes excluding radioactive materials or explosives.	(403)279-9353
Central/Northern Alberta	Davis Scrap Div. of Matrix Holdings 11404 - 143 Street Edmonton, Alberta T5M 1V6 Contact: Mr. Ivor LeBune Buy and sell scrap metals.	(403)455-2171
Edmonton	B.F.I. Waste Systems 3410 - 74 Avenue Edmonton, Alberta T6B 2P7 Contact: Mr. Tom Loewen Industrial solid waste removal, medical waste handling and destruction	(403)468-6801
Edmonton	Tech-2 Silver Collection Services 11111 - 105 Avenue Edmonton, Alberta T5H 0M5 Contact: Mr. Ken Maggs Custom recovery of silver, gold, aluminum from film and photographic chemicals.	(403)423-5922
Lethbridge	B.F.I. Waste Systems 722 - 30 Street North Lethbridge, Alberta T1H 5G7 Contact: Mr. Tom Anderson Solid waste removal.	(403)328-6355
Medicine Hat	B.F.I. Waste Systems 1508 Brier Park Crescent Medicine Hat, Alberta T1A 7H3 Contact: Ms. Lois Steen Solid waste removal.	(403)527-1942
N. Alberta	Great Western Containers Inc. 1912 - 66 Avenue Edmonton, Alberta T6P 1M4 Contact: Mr. Ed Haberstock Recondition, purchase or disposal of used 45 and 25 gallon steel or plastic drums.	(403)440-2222
North America	Agmet Metals, Inc. P.O. Box 39338 Solon, Ohio 44139 Contact: Mr. Alan Schiff Purchases and processes wastes and by-products such as residues, concentrates, ashes, sludges, plating wastes, etc. containing such metals as nickel, copper, cobalt, tungsten, zinc, molybdenum, cadmium and all precious metals. Will assist the generator in areas such as freighting, containment and site clean-up.	(216)439-7400

Services Available

1. Custom Services

Area	Company	Phone
North America	Environmental Pacific Corporation 5285 S.W. Meadows Road, Suite 120 Lake Oswego, Oregon 97034 Contact: Mr. Steve Biedel Operates a Treatment Storage Disposal Facility (TSDF) to recycle alkali batteries as well as heavy metal sludges and liquids.	(503)226-7331
North America	Falconbridge Ltd Falconbridge, ON P0M 1S0 Contact: Mr. Bob Gutauskas Refining of nickle, cobalt and secondary materials.	(705)693-2761
North America	MAG Agencies Ltd. P.O. Box 5702, Postal Station 'L' Edmonton, Alberta T6C 4G2 Contact: Mr. Mark McGuire Distributes Lanair waste oil heaters—CSA certified and emission free.	(403)447-1904
North America	Petwa Canada Ltd. 4120 - 23 Street NE Calgary, Alberta T2E 6W9 Contact: Mr. Graham Medworth Expertise in the treatment of water and wastewater as well as solid waste incineration. Have a fully qualified engineering staff who design customized package water and wastewater equipment.	(403)250-2650
Northern Alberta	Edcon P.O. Box 2038 St. Albert, Alberta T8N 2A3 Contact: Mr. Ed Shaback Supply of absorbent materials for liquid waste clean-up and safe transportation. The clay based absorbent is manufactured in Edmonton and Calgary from local materials. This absorbent is inert and non-reactive with most chemical substances. This absorbent is immediately available in quantities ranging from single 25 kg bags to bulk truck quantities from inventories at each location.	(403)447-1856
Northern Alberta	Union Carbide-Linde Division 9501 - 34 Street Edmonton, Alberta T6B 2X6 Contact: Mr. Gerry Nordick Neutralize waste acids with lime on a regular basis at locations in Edmonton and Calgary.	(403)465-0778
Northern Alberta	Vulcan Industrial Packaging Ltd. 1912 - 66 Avenue Edmonton, Alberta T6P 1M4 Contact: Mr. Eric Storey Reconditioning service for steel drums (45 & 25 gal.)	(403)440-2222

Services Available

1. Custom Services

Area	Company	Phone
S. Alberta	Great Western Containers Inc. 7815 - 46 St. S.E. Calgary, Alberta T2C 2Y5 Contact: Mr. Randy Empringham	(403)279-2090
	Recondition, purchase or disposal of used 45 and 25 gallon steel or plastic drums.	
Southern Alberta	CBR Cement Canada Limited 1200, 1015 - 4 Street SW Calgary, Alberta T2R 1J4 Contact: Mr. J.G. McKendry	(403)262-2928
	Supply of absorbent materials for liquid waste clean-up and safe transportation. The clay based absorbent is manufactured in Edmonton and Calgary from local materials. This absorbent is inert and non-reactive with most chemical substances. This absorbent is immediately available in quantities ranging from single 25 kg bags to bulk truck quantities from inventories at each location.	
Southern Alberta	Modern Packaging Co. (1984) Ltd. Box 246, Station T Calgary, Alberta T2H 2G8 Contact: Mr. John Wong	(403)252-4481
	Manufacturer of polyethylene products. Can regrind certain polyethylene scrap.	
Southern Alberta	Union Carbide-Linde Division 8009 - 42 Street SE Calgary, Alberta T2C 2T4 Contact: Mr. Duncan Reed	(403)279-4796
	Neutralize waste acids with lime on a regular basis at locations in Edmonton and Calgary.	
Western Canada	Al-Tec Sanitation Systems Ltd. 123, 2723 - 27 Avenue NE Calgary, Alberta T1Y 5R8 Contact: Mr. Jim Turner or Mr. Peter Fredeen	(403)291-4027
	Custom handling, transportation, disposal and consulting services for a wide range of hazardous wastes. Operate transfer stations in Medicine Hat and Winnipeg.	
Western Canada	Canadian Chemical Reclaiming Limited 610 Prairie Meadows Close Brooks, Alberta T0J 0J0 Contact: Mr. Todd Beasley	(403)362-6229
	Engineering, construction and startup of plants to reclaim waste amines, glycols, sulfolane and sulfinol. Also will reclaim all grades of ethanolamines, glycols, sulfolanes and sulfinol.	
Western Canada	Chem-Security Ltd. 1202 - 8A Street Nisku, Alberta T0C 2G0 Contact: Mr. Gerald Klassen	(403)955-9462
	Custom handling of all hazardous wastes excluding radioactive materials or explosives. Operates the Alberta Special Waste Treatment Center in Swan Hills.	

Services Available

1. Custom Services

Area	Company	Phone
Western Canada	EPC (Canada) Inc. 1101, 1200 - 6 Street SW Calgary, Alberta T2R 1H3 Contact: Mr. Patrick White Custom handling of oily waste products.	(403)262-1930
Western Canada	Stuart Hunt and Associates 26 Rayborn Crescent St. Albert, Alberta T8N 5B8 Contact: Mr. Stuart Hunt PCB and radioactive waste management, decontamination of work sites and consultation on hazardous waste management programmes.	(403)458-0291
Western Canada	Tracer Analytical Laboratories Inc. 1924 - 10 Avenue NW Medicine Hat, Alberta T1A 7E4 Contact: Mr. Ron Pang Sampling and handling of most wastes and waters for classification, identification and evaluation. Advise on hazardous waste disposal.	(403)529-0222
Western Canada	Trecan Combustion Ltd. 4620 Manilla Road SE Calgary, Alberta T2G 4B7 Contact: Mr. Peter Richardson Custom design or supply of standard sizes of incinerator for solid wastes, liquids, fumes and gases to meet environmental requirements.	(403)243-5570
Western Canada	Western Research 1313 - 44 Ave., NE Calgary, Alberta T2E 6L5 Contact: Mr. David Dougherty Investigative studies for organic contaminants and/or constituents using Gas Chromatography/mass Spectrometry. PCB's organic and inorganic priority pollutants. volatile and semi-volatile organics in soil and water	(403)291-1313
Western Canada, N.W.T.	Leake Equipment Ltd. 16939 - 111 Avenue Edmonton, Alberta T5M 2S4 Contact: MR. Jerry Leake portable liquid waste containment bags, compact light weight with capacities to 2200 gal.(22,000 lb.)	(403)483-0920
Western Canada, U.S.	Impact Industries (Western) Ltd. Box 70 Lacombe, Alberta T0C 1S0 Contact: Mr. John Othius Purify off-spec sulfur, and sulphur related commodities.	(403)782-3115 /3799

Services Available

1. Custom Services

Area	Company	Phone
Worldwide	Custom Environmental Services Ltd. 9241 - 35 Avenue Edmonton, Alberta T6E 5Y1 Contact: Mr. Brian Winters Specialized P.C.B services, medical wastes disposal (biohazards), specialized containers for the storage of all wastes, consultation, packaging, spill cleanup, transportation, site remedial action, site assessments, solvent reclamation.	(403)450-2010
Worldwide	G. Wm. Bailey International Ltd. P.O. Box 7426 E Calgary, Alberta T3C 3M2 Contact: Mr. Bill Bailey Rubber recycling equipment capable of shredding all types of rubber producing any size metal and nylon free crumb. Also has available waste to energy incineration equipment which handles solids, liquids, sludges or a combination of all producing heat, steam and/or electricity. System is available for purchase or on a contract basis.	(403)240-3530
Worldwide	Great Plains Waste Management Inc. 400, 602 - 11 Avenue SW Calgary, Alberta T2R 1J8 Contact: Mr. Patrick White Turnkey design, manufacture, and construction of municipal MSW and industrial special hazardous waste facilities and plants utilizing proprietary pyrolysis and gasification process technologies.	(403)265-3233
Worldwide	Guardian Tubing Services Ltd. 920 - 26 Street NE Calgary, Alberta T2A 2M4 Contact: Mr. Brian Hunt, Mr. Walter McCallum Design, fabrication, construction and installation of Geomembrane containment systems for liquid, solid, and vapor wastes.	(403)235-5255
Worldwide	Steven Browdy Enterprises 15613 Ventura Boulevard Encino, California 91436 Contact: Mr. Steven Browdy Surplus and obsolete inventories bought, sold and liquidated. Reprocessing of waste materials.	(818)989-7723

Services Available

2. Consultants

Area	Company	Phone
Alberta, N.W.T.	EBA Engineering 14535 - 118 Avenue Edmonton, Alberta T5L 2M7 Contact: Mr. Ray Dubas Spill site clean-up and reclamation specifically geophysical services applicable to hazardous waste clean-up including ground penetrating radar and electromagnetic investigations.	(403)451-2121
Alberta	Dynawaste Systems Ltd. #4, 3815 - 61 Avenue SE Calgary, Alberta T2C 1V5 Contact: Mr. Gene Lukomski Consultation on all waste problems including solid, liquid and hazardous wastes. Ability to fit equipment to customer needs.	(403)236-0501
Alberta	J.E. Swarder Engineering Ltd. 408, 5020 Riverbend Road Edmonton, Alberta Contact: Mr. John Swarder, P.Eng. Consultation in the study, evaluation and design of air pollution control systems; incinerator installations with/without heat recovery; industrial, recreational and commercial buildings; HVAC; industrial process optimization; heat utilization; and energy conservation. Experience includes extensive inspection of European incineration practices.	(403)436-5892
Alberta	Second Source Service Box 181 Blackfalds, Alberta T0M 0J0 Contact: Mr. Bob Ketcheson Specializes in the production of methane from animal wastes. Consultation services are available in this and other areas involving alternate energy.	(403)885-4750
Alberta	Silver Recovery Systems Inc. 14511 - 123 Avenue Edmonton, Alberta T5L 2Y6 Contact: Mr. Rick Macleod Consulting for all photo sensitive material processing, reclamation and disposal	(403)451-5454
Alberta & B.C.	International Paper Industries Ltd. 132 Riverside Drive North Vancouver, British Columbia V7H 1T9 Contact: Ms. Amy Wong Leung Consultation to assist in setting up curbside waste paper collection programs.	(604)687-4448
Alberta & N.W.T.	Strathcona Engineering Ltd. P.O. Box 11844 WE Edmonton, Alberta T5J 3K9 Contact: Mr. Peter Schneider, P. Eng. SEL offers services from feasibility studies to design project commissioning for municipal, industrial and institutional projects in the area of solid and liquid wastes, including bio-hazardous and chemical hazardous wastes.	(403)465-5888

Services Available

2. Consultants

Area	Company	Phone
Alberta, B.C., Saskatchewan	Mayer Metals Ltd. 9931 - 67 Avenue Edmonton, Alberta T6E 0P6 Contact: Mr. Geoffrey K. Mayer Service consultants in the removal of all waste materials.	(403)438-5107
Alta and N.W.T.	Sereda, Marsh & Associates Ltd. 5418 - 97 Street Edmonton, Alberta T6E 5C1 Contact: Mr. Jack Marsh, P. Eng. Consulting engineering, waste management.	(403)437-3276
Alta. and Sask.	Merritt Process and Research Ltd. 610 Simcoe Close S.E. Calgary, AB T2J 5H2 Contact: Mr. Dwight Merritt, P.Eng. Process engineering services for industrial effluent waste water treatment and for reclaiming of waste amines, glycols, sulfolane and sulfinol.	(403)278-5104
Canada & U.S.	Catalyst Technology (Canada) Ltd. 8103 - 43 Street Edmonton, Alberta T6B 2M3 Contact: Mr. James R. Moses Environmental consultants on dangerous and hazardous spills. Pre-safety planning and first response specialized team.	(403)468-4544
Canada & U.S.	Industrial By-Product Recycling Inc. (IBR) #250, 603/605 - 11 Avenue SW Calgary, Alberta T2R 0E1 Contact: Mr. Lori Feldman Consultation offered in the areas of spent catalyst reclamation and disposal.	(403)264-8778
Canada & U.S.	Keller Environmental Services 6011 - 87A Street Edmonton, Alberta T6E 5W6 Contact: Mr. J. Cheladyn/ Mr. T.L. Willis Waste management surveys; solid, liquid and waste gas disposal options; water and waste water treatment.	(403)468-5991
Edmonton	Gadallah Enterprises Ltd. Research, Devlp. & Prod. Planning 15623 - 112 Avenue Edmonton, Alberta T5M 2V8 Contact: F. Gadallah Consultation in the chemistry of PCB contamination and many other toxic materials.	(403)451-2021
North America	M. Siekerka, Industrial Recycling Consultant 11 Boulder Point Springfield, IL 62702-3307 Contact: Ms. Margo Siekerka Any industrial waste placement or location.	(217)787-4058

Services Available

2. Consultants

Area	Company	Phone
Northern Alberta	Oleophilic Sieve Development 4643 - 82 Avenue Edmonton, Alberta T6B 2L9 Contact: Mr. J Kruyer	(403)469-1240
	Provides consulting on the separation of bitumen and heavy oil from sludges and sand.	
Western Canada	Delta Projects Inc. 8500 MacLeod Trail South Calgary, Alberta T2H 2N7 Contact: Mr. T. Sowiak	(403)259-0411
	Consulting services, design, engineering and construction of water and waste treatment plants, including anaerobic systems.	
Western Canada	FMS Lavalin Inc. 909 - 5 Avenue SE Calgary, Alberta T2P 3G5 Contact: Mr. Emilien Roy	(403)294-2100
	Consulting services in solid waste management, water treatment and anaerobic digester systems. Affiliated with Paques- Lavalin.	
Western Canada	FMS Lavalin Inc. 9803 - 102A Avenue Edmonton, Alberta T5J 3A3 Contact: T.W. Lumsden	
	Consulting services in solid waste management. water treatment and anaerobic digester systems. Affiliated with Paques-Lavalin.	
Western Canada	Hardy BBT Ltd. 219 - 18 Street SE Calgary, Alberta T2E 6J5 Contact: Mr. Richard Leitch	(403)248-4331
	Consulting services in waste management, spill site assessment, clean-up and reclamation.	
Western Canada	Integrated Environments Ltd. #204, 1422 Kensington Rd. NW Calgary, Alberta T2N 3P9 Contact: Mr. Joseph Wells	(403)270-7222
	Offer planning and management for waste disposal/tracking options in the resource industries. Marketing of a waste management/accounting database management system. Provides consulting services for industrial site clean-ups.	
Western Canada	Stanley Associates Engineering Ltd. 10160 - 112 Street Edmonton, Alberta T5K 2L6 Contact: Mr. Matt Cohen	(403)423-4777
	Consulting in solid, liquid, and hazardous waste disposal.	

Services Available

2. Consultants

Area	Company	Phone
Western Canada	TERA Environmental Consultants Suite 305, 925 - 7 Avenue SW Calgary, Alberta T2P 1A5 Contact: Mr. Howard Heffler Environmental consulting services to petroleum and other industries in Western Canada. Several projects have dealt with waste management and disposal including waste disposal guidelines and training programs for the Canadian Petroleum Association. (Brochures available on request).	(403)265-2885
Western Canada	Western Research 1313 - 44 Ave., NE Calgary, Alberta T2E 6L5 Contact: Mr. David Dougherty Comprehensive waste management planning, consulting sampling, analysis and on-site work	(403)291-1313
Worldwide	Davenport/Hadley Applied Engineering Geophysics 821 - 16 Street Golden, Colorado Contact: Ms. Linda Hadley Provides geophysical services applicable to hazardous waste investigations and remedial action. Ground penetrating radar, electromagnetic (EM), resistivity, magnetics, seismic refraction and other geophysical investigations.	(303)278-8158
Worldwide	Monenco Consultants Ltd. 400, 801 - 6 Avenue SW Calgary, Alberta T2P 3W3 Contact: Mr. Anil Somani Environmental consulting services, waste management, and disposal options, industrial site decommissioning, spill clean-up.	(403)298-4170
Worldwide	R.H.R. Management Ltd. 5929 - 6 Street NE Calgary, Alberta T2K 5R5 Contact: Mr. Len Sukovieff Consultation, equipment, construction and sales in the area of waste water treatment for a wide range of applications.	(403)275-6260

Services Available

3. Transportation

Area	Company	Phone
Alberta	Brunswick Industries Sylvan Lake, Alberta T0M 1Z0 Contact: Mr. David L. Lifford Pick-up/purchase of small to medium sized quantities of solid wastes for resale/delivery to other firms.	(403)887-2564
Alberta	Gallason Industrial Cleaning Services Inc. 11228 - 87 Avenue Fort Saskatchewan, AB T8L 2T2 Contact: Mr. Mark Johnson Material transport.	(403)998-7773
Alberta & B.C.	Chief Hauling Contractors, A Div. of Chief Construction Co. Ltd. 2903 - 61 Avenue SE Calgary, Alberta T2C 1RC Contact: Mr. Don Friesen Dry and liquid bulk excavators and loaders.	(403)279-2733
Western Canada	Al-Tec Sanitation Systems Ltd. 123, 2723 - 27 Avenue NE Calgary, Alberta T1Y 5R8 Contact: Mr. Jim Turner or Mr. Peter Fredeen Transportation of all hazardous wastes excluding radioactive or explosives.	(403)291-4027
Western Canada	Chem-Security Ltd. 1323 - 44 Avenue NE Calgary, Alberta T2E 6L5 Contact: Mr. Rod Leland Transportation of all hazardous wastes excluding radioactive materials or explosives.	(403)250-3742
Western Canada	Chem-Security Ltd. 1202 - 8A Street Nisku, Alberta T0C 2G0 Contact: Mr. Gerald Klassen Transportation of all hazardous wastes excluding radioactive materials or explosives.	(403)955-9462
Western Canada	Stanley Associates Engineering Ltd. 10160 - 112 Street Edmonton, Alberta T5K 2L6 Contact: Mr. Matt Cohen Handling and transportation of solid, liquid and hazardous wastes.	(403)423-4777



Alberta Waste Materials Exchange

Form 1

Exchange Use Only

ID Listing Code _____

Location Code _____

Input Date ____/____/____

Listing Form

(submit separate form for each listing)

1. Company Name: _____ SIC Code: _____

2. Mailing Address: _____

3. Company Contact: _____ 4. Title: _____

5. Signature: _____ 6. Date: _____ 7. Phone: () _____

8. Check One Only: ☐ Material Available ☐ Material Wanted

9. Classification (review all first, then select one only that best describes your material):

- | | | | |
|--|--|---|--|
| ☐ Acids | ☐ Solvents | ☐ Plastics and Rubber | ☐ Metals and |
| ☐ Alkalies | ☐ Other Organic Chemicals | ☐ Textiles and Leather | Metal Sludges |
| ☐ Other Inorganic Chemicals | ☐ Oils and Waxes | ☐ Wood and Paper | ☐ Miscellaneous |

10. Material to be listed (main usable constituent, generic name): _____

11. The industrial process that generates this waste: _____

12. Main constituent (chemical formula): _____ % _____ in _____

13. Contaminants (highest to lowest, chemical formula): _____ % _____ % _____ % _____ % _____

14. Percentage by (check one): ☐ Volume ☐ Wet Weight ☐ Dry Weight

15. Physical State: ☐ Solution ☐ Slurry ☐ Sludge ☐ Cake
☐ Aggregate ☐ Solid ☐ Dust ☐ Gas

16. Miscellaneous appropriate information (pH, toxicity, reactivity, color, particle size, flash point, total solids, purchase date):

17. Potential or intended use: _____

18. Packaging: ☐ Bulk ☐ Drums ☐ Pallets ☐ Bales ☐ Other _____

19. Present amount: _____ 20. Frequency: ☐ Continuous ☐ Variable ☐ One Time

21. Quantity thereafter: _____ in: ☐ lbs. ☐ tons ☐ gal ☐ cu.yd. ☐ kg ☐ tonnes ☐ L ☐ cubic meters ☐ Other _____

per: ☐ Day ☐ Week ☐ Month ☐ Quarter ☐ Year

22. Restriction on amounts: ☐ None ☐ Minimum ☐ Maximum _____

23. Available to interested parties: ☐ Sample ☐ Lab Analysis ☐ Independent Analysis

24. For material wanted, acceptable geographic range (i.e. states, provinces, regions, countries):

25. For materials available, if location of the material differs from the above mailing address, complete the following:

City _____ State or Province _____ Area Code _____

26. If necessary to speed communication, please check if your company name, address and telephone number may be released: ☐ Yes ☐ No



Alberta Waste Materials Exchange

Form 2

Services Available

Please use this form if you wish to list transportation, reprocessing or consultation services available on a non-confidential basis.

I would like to be listed under the following category(ies):

☐ Custom Services

☐ Consulting

☐ Transportation

*Geographic Region(s) served	Material(s) handled	Company name, address, telephone number, contact

Please be brief. This is not intended as an advertising service. The exchange reserves the right to edit entries.

*Use letter identifiers from the map at the front of the bulletin.



Alberta Waste Materials Exchange

Form 3

I am interested in item number _____ listed in the waste materials exchange. I think I might be able to use/supply _____ of this material and I would be interested in discussing this possibility with the _____ quantity/timing company listing the item.

Please forward this inquiry to them:

Date: _____

Signature: _____

Name: _____

Title: _____

Company: _____

Address: _____

Telephone: _____

Telex/TWX: _____

If more than one item is requested, please photocopy form for each item.

Waste Exchanges Operating in North America – January 1990

Alberta Waste Materials Exchange
Mr. William C. Kay
Alberta Research Council
PO Box 8330, Station F
Edmonton, Alberta
Canada T6H 5X2
(403)450-5408
Fax (403)450-5477

British Columbia Waste Exchange
Ms. Judy Toth
2150 Maple Street
Vancouver, British Columbia
Canada V6J 3T3
(604)731-7222

California Waste Exchange
Mr. Robert McCormick
Department of Health Services
Toxic Substances Control Division
Alternative Technology Section
PO Box 942732
Sacramento, CA 94234-7320
(916)324-1807

Canadian Chemical Exchange*
Mr. Philippe LaRoche
PO Box 1135
Ste-Adele, Quebec
Canada J0R 1L0
(514)229-6511

Canadian Waste Materials Exchange
ORTECH International
Dr. Robert Laughlin
2395 Speakman Drive
Mississauga, Ontario
Canada L5K 1B3
(416)822-4111 ext.265
Fax (416)823-1446

Enstar Corporation*
Mr. J.T. Engster
PO Box 189
Latham, NY 12110
(518)785-0470

Indiana Waste Exchange
Dr. Lynn A. Corson
Purdue University
School of Civil Engineering
Civil Engineering Building
West Lagayette, IN 47907
(317)494-5036

Industrial Materials Exchange
Mr. Jerry Henderson
172 - 20 Avenue
Seattle, WA 98122
(206)296-4633
Fax (206)296-0188

Industrial Materials Exchange Service
Ms. Diane Shockey
PO Box 19276
Springfield, IL 62794-9276
(217)782-0450
Fax (217)524-4193

Industrial Waste Information Exchange
Mr. William E. Payne
New Jersey Chamber of Commerce
5 Commerce Street
Newark, NJ 07102
(201)623-7070

Manitoba Waste Exchange
Mr. James Ferguson
c/o Biomass Energy Institute, Inc.
1329 Niakwa Road
Winnipeg, Manitoba
Canada R2J 3T4
(204)257-3891

Montana Industrial Waste Exchange
Mr. Don Ingles
Montana Chamber of Commerce
PO Box 1730
Helene, MT 59624
(406)442-2405

New Hampshire Waste Exchange
Mr. Gary J. Olson
c/o NHRRA
PO Box 721
Concord, NH 03301
(603)224-6996

Northeast Industrial Waste Exchange, Inc.
Mr. Lewis Cutler
90 Presidential Plaza, Suite 122
Syracuse, NY 13202
(315)422-6572
Fax (315)422-9051

Ontario Waste Exchange
ORTECH International
Ms. Linda Varangu
2395 Speakman Drive
Mississauga, Ontario
Canada L5K 1B3
(416)822-4111 ext. 512
Fax (416)823-1446

Pacific Materials Exchange
Mr. Bob Smee
South 3707 Godfrey Blvd.
Spokane, WA 99204
(509)623-4244

Peel Regional Waste Exchange
Mr. Glen Milbury
Regional Municipality of Peel
10 Peel Center Drive
Brampton, Ontario
Canada L6T 4B9
(416)791-9400

RENEW
Ms. Hope Castillo
Texas Water Commission
PO Box 13087
Austin, TX 78711-3087
(512)463-7773
Fax (512)463-8317

Resource Exchange & News
Ms. Kay Ostrowsi
400 Ann Street NW
Suite 201-A
Grand Rapids, MI 49504-2054
(616)363-3262

San Francisco Waste Exchange
Ms. Portia Sinnott
2524 Benvenue #35
Berkeley, CA 94704
(415)548-6659

Southeast Waste Exchange
Ms. Maxie L. May
Urban Institute
UNCC Station
Charlotte, NC 28223
(704)547-2307

Southern Waste Information Exchange
Mr. Eugene B. Jones
PO Box 960
Tallahassee, FL 32302
(800)441-SWIX (7949)
(904)644-5516
Fax (904)574-6704

Wastelink, Division of Tencon, Inc.
Ms. Mary E. Malotke
140 Wooster Pike
Milford, OH 45150
(513)248-0012
Fax (513)248-1094

*for-profit Waste Information Exchange

William C. Kay
Alberta Waste Materials Exchange
PO Box 8330, Postal Station F
Edmonton, Alberta T6H 5X2